CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.08/MNS/CSR-03/1105d/CEMENT/2015-16 Date: 26.03.2016

TEST REPORT ON CEMENT

*** CUSTOMER**	:	**Asst. Executive Engineer**, Kodigehalli Sub Division, BBMP, Bangalore.
***AGENCY**	:	**Mr. M.N. Shashidhar,** #33, HVR Layout, Magadi Main Road, Bangalore – 79.
***NAME OF THE WORK**	:	Improvements to Roads and Drains at Kodigehalli Village surroundings in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
***REFERENCE**	:	AEE(KSD)/PR/2015-16 Dated: 24.03.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	24.03.2016
PERIOD OF TESTING	:	24.03.2016 to 26.03.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/W.No.08/MNS/CSR-03/1105d/SAND-Gradation/2015-16 : 26.03.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. M.N. Shashidhar,**
#33, HVR Layout, Magadi Main Road, Bangalore – 79.

*** Name of Work** : Improvements to Roads and Drains at Kodigehalli Village surroundings in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE(KSD)/PR/2015-16 Dated: 24.03.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 24.03.2016

Date of Testing : 26.03.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.80	90-100	90-100	90-100	95-100
2.36	74.80	60-95	75-100	85-100	95-100
1.18	56.60	30-70	55-90	75-100	90-100
600 Micron	33.00	15-34	35-59	60-79	80-100
300 Micron	17.70	5-20	8-30	12-40	15-50
150 Micron	5.40	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

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Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.08/MNS/CSR-03/1105d/AGG/GR/2015-16 : 26.03.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. M.N. Shashidhar,**
#33, HVR Layout, Magadi Main Road, Bangalore – 79.

*** Name of Work** : Improvements to Roads and Drains at Kodigehalli Village surroundings in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE(KSD)/PR/2015-16 Dated: 24.03.2016

Technical Reference : IS : 2386 Part 1-1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 24.03.2016

Date of Testing : 26.03.2016

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.44	95-100	85-100
20	43.30	30-70	0-20
10	20.94	10-35	0-5
4.75	2.69	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.08/MNS/CSR-03/1105d/AGG/GR/2015-16 : 26.03.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. M.N. Shashidhar,**
#33, HVR Layout, Magadi Main Road, Bangalore – 79.

*** Name of Work** : Improvements to Roads and Drains at Kodigehalli Village surroundings in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

*** Reference** : AEE(KSD)/PR/2015-16 Dated: 24.03.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (20mm)

Sample Received on : 24.03.2016

Date of Testing : 26.03.2016

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	96.14	95-100	85-100
10	31.90	25-55	0-20
4.75	5.00	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/W.No.08/MNS/CSR-03/1105d/CUBE/2016-17 29.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

***Agency** : **Mr. M.N. Shashidhar,**
#33, HVR Layout, Magadi Main Road, Bangalore – 79.

***Name of the work** : Improvements to Roads and Drains at Kodigehalli Village surroundings in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

***Reference** : AEE(KSD)/PR/2016-17 Dated: 28.04.2016

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 29.04.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.04.2016	29.04.2016	8.190	478.3	21.26
2	01.04.2016	29.04.2016	8.290	496.5	22.07
3	01.04.2016	29.04.2016	8.340	520.6	23.14

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Job No.: CTCE/BBMP/W.No.08/MNS/CSR-03/1105d/CUBE/2016-17 29.04.2016

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***Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

***Agency** : **Mr. M.N. Shashidhar,**
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***Reference** : AEE(KSD)/PR/2016-17 Dated: 28.04.2016

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 29.04.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.04.2016	29.04.2016	8.129	485.5	21.58
2	01.04.2016	29.04.2016	8.240	510.2	22.68
3	01.04.2016	29.04.2016	8.356	520.1	23.12

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***Reference** : AEE(KSD)/PR/2016-17 Dated: 28.04.2016

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 29.04.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.04.2016	29.04.2016	8.110	474.9	21.11
2	01.04.2016	29.04.2016	8.220	500.3	22.24
3	01.04.2016	29.04.2016	8.390	519.6	23.09

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***Reference** : AEE(KSD)/PR/2016-17 Dated: 28.04.2016

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 29.04.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.04.2016	29.04.2016	8.115	479.6	21.32
2	01.04.2016	29.04.2016	8.229	516.4	22.95
3	01.04.2016	29.04.2016	8.310	528.6	23.49

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***Reference** : AEE(KSD)/PR/2016-17 Dated: 28.04.2016

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 29.04.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.04.2016	29.04.2016	8.175	479.6	21.32
2	01.04.2016	29.04.2016	8.288	502.2	22.32
3	01.04.2016	29.04.2016	8.332	518.7	23.05

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Job No.: CTCE/BBMP/W.No.08/MNS/CSR-03/1105d/CUBE/2016-17 08.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer** : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

***Agency** : **Mr. M.N. Shashidhar,**
#33, HVR Layout, Magadi Main Road, Bangalore – 79.

***Name of the work** : Improvements to Roads and Drains at Kodigehalli Village surroundings in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

***Reference** : AEE(KSD)/PR/2016-17 Dated: 28.04.2016

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 08.04.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.04.2016	08.04.2016	8.122	352.2	15.65
2	01.04.2016	08.04.2016	8.235	360.1	16.00
3	01.04.2016	08.04.2016	8.310	365.4	16.24

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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***Reference** : AEE(KSD)/PR/2016-17 Dated: 28.04.2016

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 08.04.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.04.2016	08.04.2016	8.189	355.5	15.80
2	01.04.2016	08.04.2016	8.298	360.5	16.02
3	01.04.2016	08.04.2016	8.340	368.3	16.37

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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***Reference** : AEE(KSD)/PR/2016-17 Dated: 28.04.2016

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 08.04.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.04.2016	08.04.2016	8.285	356.6	15.85
2	01.04.2016	08.04.2016	8.334	368.6	16.38
3	01.04.2016	08.04.2016	8.415	372.3	16.55

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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***Reference** : AEE(KSD)/PR/2016-17 Dated: 28.04.2016

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 08.04.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.04.2016	08.04.2016	8.105	348.8	15.50
2	01.04.2016	08.04.2016	8.205	356.3	15.84
3	01.04.2016	08.04.2016	8.378	368.6	16.38

*Information is furnished by the Customer/Representative.

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.08/MNS/CSR-03/1105d/CUBE/2016-17 08.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

***Customer**	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
***Agency**	: **Mr. M.N. Shashidhar,** #33, HVR Layout, Magadi Main Road, Bangalore – 79.
***Name of the work**	: Improvements to Roads and Drains at Kodigehalli Village surroundings in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
***Reference**	: AEE(KSD)/PR/2016-17 Dated: 28.04.2016
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
***Grade of Concrete**	: M_{20}
Compressive Strength as on	: 7th day
Sample Received on	: 08.04.2016

Sl.No.	*Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.04.2016	08.04.2016	8.110	356.6	15.85
2	01.04.2016	08.04.2016	8.225	372.3	16.55
3	01.04.2016	08.04.2016	8.330	380.2	16.90

*Information is furnished by the Customer/Representative.

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